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Guangzhou Branch**

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Report No.: GZEM170700463801
Page: 1 of 24

TEST REPORT

Application No.: GZEM1707004638HS
Applicant: Jiangmen Bestone Electric Technology Co., Ltd.
Address of Applicant: Sanyawei, Muzhou Village, Muzhou Town, Xinhui District, Jiangmen City, Guangdong Province, China
Manufacturer: The same as Applicant
Address of Manufacturer: The same as Applicant
Factory: The same as Applicant
Address of Factory: The same as Applicant
Equipment Under Test (EUT):
EUT Name: Blender
Model No.: BT-B15A, BT-B02B, BT-B05B, BT-B02A, BT-B05A, BT-B12B, BT-B15B, BT-B12A, BT-B22B, BT-B25B, BT-B22A, BT-B25A, BT-B32B, BT-B35B, BT-B32A, BT-B35A. ☐
☐ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Standards: EN 55014-1:2006+A1:2009+A2:2011
EN 55014-2:2015
EN 61000-3-2:2014
EN 61000-3-3:2013
Date of Receipt: 2017-07-28
Date of Test: 2017-07-31 to 2017-08-31
Date of Issue: 2017-09-15

Test Result :	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EU Declaration of Conformity and compliance with all relevant EU Directives.



Kobe Jian
EMC Laboratory Manager



The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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Guangzhou Branch

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Revision Record				
Version	Chapter	Date	Modifier	Remark
00		2017-09-15		Original

Authorized for issue by:			
Tested By	 Jenny Chen /Project Engineer	2017-07-31 to 2017-08-31 Date	
Checked By	 Cherie Luo /Reviewer	2017-09-11 Date	

2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Disturbance at Mains Terminals (150kHz-30MHz)	EN 55014-1:2006 +A1:2009+A2:2011	CISPR 16-2-1	N/A	Pass**
Disturbance Power	EN 55014-1:2006 +A1:2009+A2:2011	CISPR 16-2-2	N/A	Pass**
Discontinuous Disturbance (150kHz-30MHz)	EN 55014-1:2006 +A1:2009+A2:2011	EN 55014-1:2006 +A1:2009+A2:2011	N/A	Pass*
Harmonic Current Emission	EN 61000-3-2:2014	EN 61000-3-2:2014	Class A	Pass*
Voltage Fluctuations and Flicker	EN 61000-3-3:2013	EN 61000-3-3:2013	Clause 5 of EN 61000-3-3	Pass
Immunity Part				
Immunity	EN 55014-2:2015	EN 55014-2:2015	Clause 4.1 of EN 55014-2	Pass*

N/A: Not applicable

* Please refer to Section 6.3, 6.4 & 7 of this report for details.

** : The EUT passed Conducted Disturbance at Mains Terminals (150kHz-30MHz) and Disturbance Power tests after modification.

⌘ Declaration of EUT Family Grouping:

Model No.: BT-B15A, BT-B02B, BT-B05B, BT-B02A, BT-B05A, BT-B12B, BT-B15B, BT-B12A, BT-B22B, BT-B25B, BT-B22A, BT-B25A, BT-B32B, BT-B35B, BT-B32A, BT-B35A.

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on the outer decoration.

Therefore only one model **BT-B02B** was tested in this report.

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4 General Information

4.1 Details of E.U.T.

Power Supply:	AC 220-240V, 50-60Hz
Rated Power:	500W
Cable:	2 wires x about 0.8m unshielded AC mains cable.

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conducted Disturbance	3.63dB (9kHz to 150kHz)
		3.22dB (150kHz to 30MHz)
2	Disturbance Power	3.78dB
3	Radiated Disturbance	5.0dB (30MHz-1GHz)
		5.0dB (1GHz-6GHz)
4	Temperature Test	0.4 °C
5	Humidity Test	1.3%

4.4 Standards Applicable for Testing

Table 1 : Tests Carried Out Under EN 55014-1:2006 +A1:2009+A2:2011

Item	Status
Conducted Disturbance at Mains Terminals (9kHz-30MHz)	×
Conducted Disturbance at Mains Terminals (150kHz-30MHz)	√
Conducted Disturbance at Load Terminals and Additional Terminals	×
Discontinuous Disturbance (150kHz-30MHz)	×
Disturbance Power	√
Radiated Disturbance (30MHz-1GHz)	×
Radiated Disturbance (Magnetic field Induced Current) (9kHz-30MHz)	×

Table 2 : Tests Carried Out Under EN 55014-2:2015

Method	Item	Status
EN 61000-4-2:2009	Electrostatic Discharge	×
EN 61000-4-3:2006 +A1:2008+A2:2010	Radiated Immunity(80MHz-1GHz)	×
EN 61000-4-4:2012	Electrical Fast Transients/Burst at Power Port	×
EN 61000-4-4:2012	Electrical Fast Transients/Burst at Signal Port	×
EN 61000-4-5:2014	Surge at Power Port	×
EN 61000-4-6:2014	Conducted Immunity at Power Port(150kHz-80MHz)	×
EN 61000-4-6:2014	Conducted Immunity at Signal Port(150kHz-80MHz)	×
EN 61000-4-11:2004	Voltage Dips and Interruptions	×
EN 61000-4-6:2014	Conducted Immunity at Power Port(150kHz-230MHz)	×
EN 61000-4-6:2014	Conducted Immunity at Signal Port(150kHz-230MHz)	×

Table 3 : Tests Carried Out Under EN 61000-3-2:2014

Item	Status
Harmonic Current Emission	√

Table 4 : Tests Carried Out Under EN 61000-3-3:2013

Item	Status
Voltage Fluctuations and Flicker	√

- ×
 - √
- Indicates that the test is not applicable
Indicates that the test is applicable

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,
Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

- **FCC (Registration No.: 282399)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

- **Industry Canada (Registration No.: 4620B-1)**

The 3m/10m Alternate Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Certification and Engineering of Industry Canada for radio equipment testing with Registration No. 4620B-1.

- **VCCI (Registration No.: R-2460, C-2584, G-449 and T-1179)**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co. Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2460, C-2584, G-449 and T-1179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.7 Deviation from Standards

None.

4.8 Abnormalities from Standard Conditions

The EUT passed Conducted Disturbance at Mains Terminals (150kHz-30MHz) and Disturbance Power tests after modification.

4.9 Monitoring of EUT for All Immunity Test

Visual: N/A

Audio: N/A

5 Equipment List

Conducted Disturbance at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	Zhong Yu	8m x 3m x 3.8m	EMC0306	N/A	N/A
Two-line v-network	R&S	ENV216	EMC0118	2017-01-20	2018-01-19
LISN	SCHAFFNER CHASE	MN2050D/1	EMC0102	2016-09-22	2017-09-21
EMI Test Receiver	Rohde & Schwarz	ESCS30	EMC0506	2016-12-02	2017-12-01
Coaxial Cable	SGS	2m	EMC0107	2016-07-24	2018-07-23
Voltage Probe	SGS	N/A	EMC0106	2016-04-05	2018-04-04
Conical metal housing	SGS-EMC	N/A	EMC0167	2016-04-19	2018-04-18

Disturbance Power						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. date	Cal. Due date
					(YYYY-MM-DD)	(YYYY-MM-DD)
EMC0306	Shielding Room	Zhong Yu	8 x 3 x 3.8 m ³	N/A	N/A	N/A
EMC2040	Absorbing Clamp	Beijing Dazhe Co. Ltd.	ZN23201	N/A	2017-01-20	2018-01-19
EMC0303	7m Coaxial Cable	SGS	7m	N/A	2017-6-30	2019-06-29
EMC0506	EMI Test Receiver	Rohde & Schwarz	ESCS30	100085	2016-12-02	2017-12-01
EMC2062	6dB Attenuator	HP	8491A	24487	2016-04-05	2018-04-04
EMC0305	Slide Bar Controller	HD-GmbH	HD50	050/490	N/A	N/A
EMC0103	Slide Bar RP	HD-GmbH	KMS560	560/392	N/A	N/A

Voltage Fluctuations and Flicker					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
AC Power Source	California	50001iX	EMC0608	2017-03-20	2018-03-19
Power Analyzer	California	PACS	EMC0607	2017-03-20	2018-03-19

General used equipment						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. date	Cal. Due date
					(YYYY-MM-DD)	(YYYY-MM-DD)
EMC0006	DMM	Fluke	73	70681569	2017-07-26	2018-07-25
EMC0007	DMM	Fluke	73	70671122	2017-07-26	2018-07-25

6 Emission Test Results

6.1 Conducted Disturbance at Mains Terminals (150kHz-30MHz)

Test Requirement:	EN 55014-1:2006 +A1:2009+A2:2011
Test Method:	CISPR 16-2-1
Frequency Range:	150kHz to 30MHz
Limit:	
0.15MHz-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 59dB(μV)-46dB(μV) average
0.5MHz-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5MHz-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 150KHz to 30MHz

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21 °C Humidity: 53 % RH Atmospheric Pressure: 1015 mbar

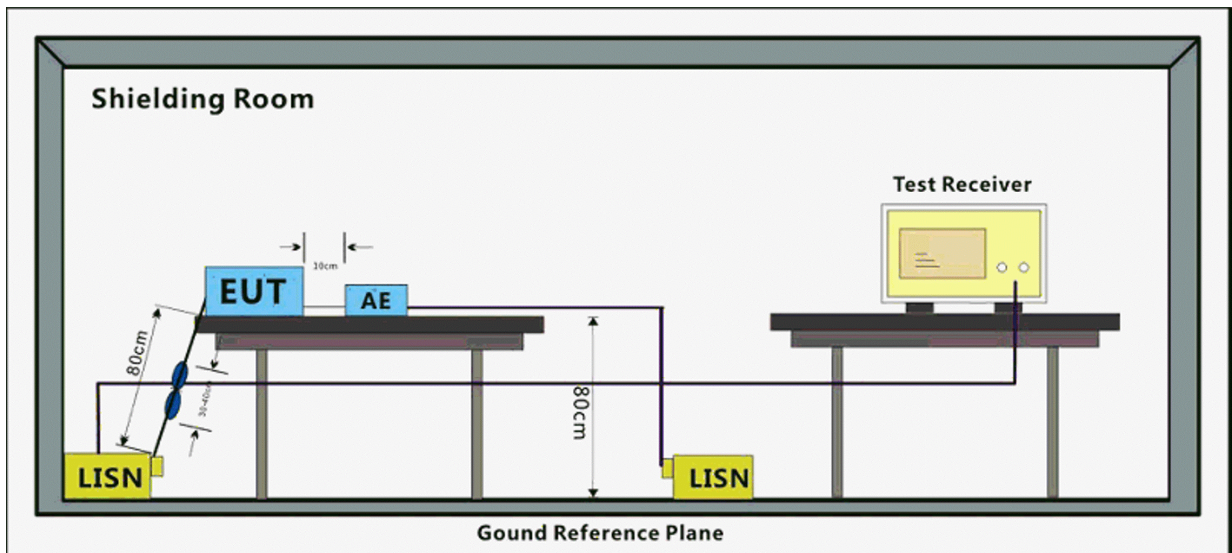
Pretest these modes to find the worst case:

- a: Test the EUT in pulse mode.
- b: Test the EUT in dehumidifying mode at maximum speed.
- c: Test the EUT in dehumidifying mode at minimum speed.

The worst case for final test:

- a: Test the EUT in pulse mode.

6.1.2 Test Setup Diagram

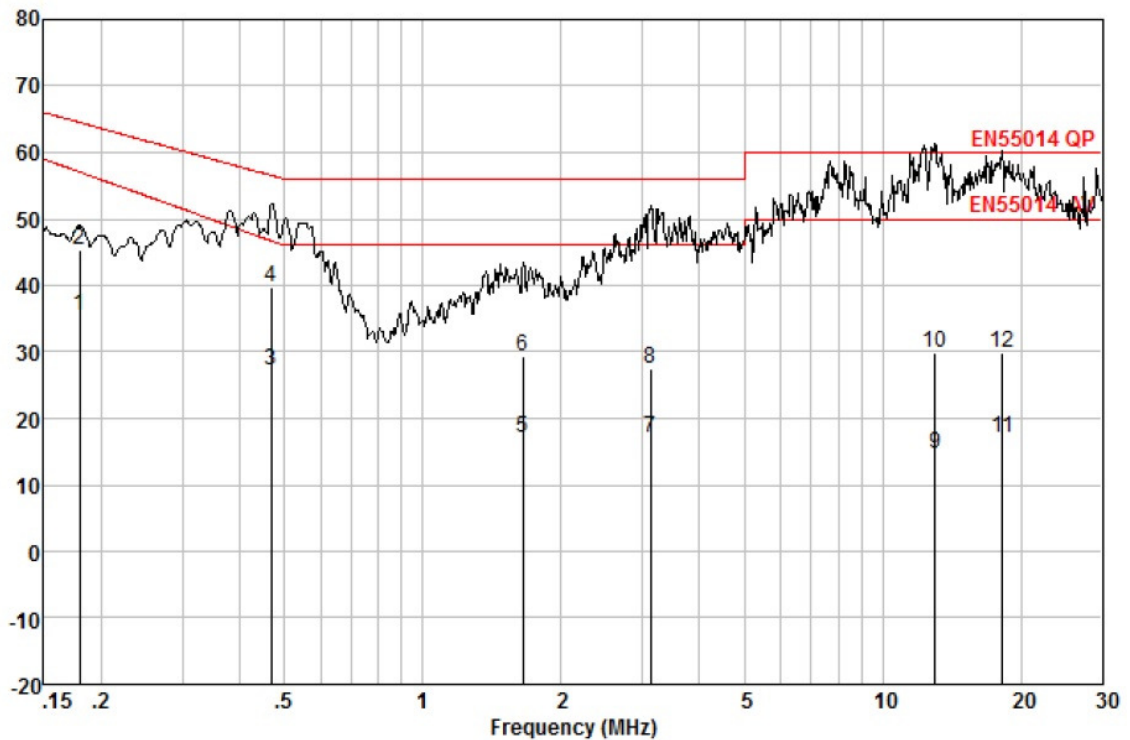


6.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

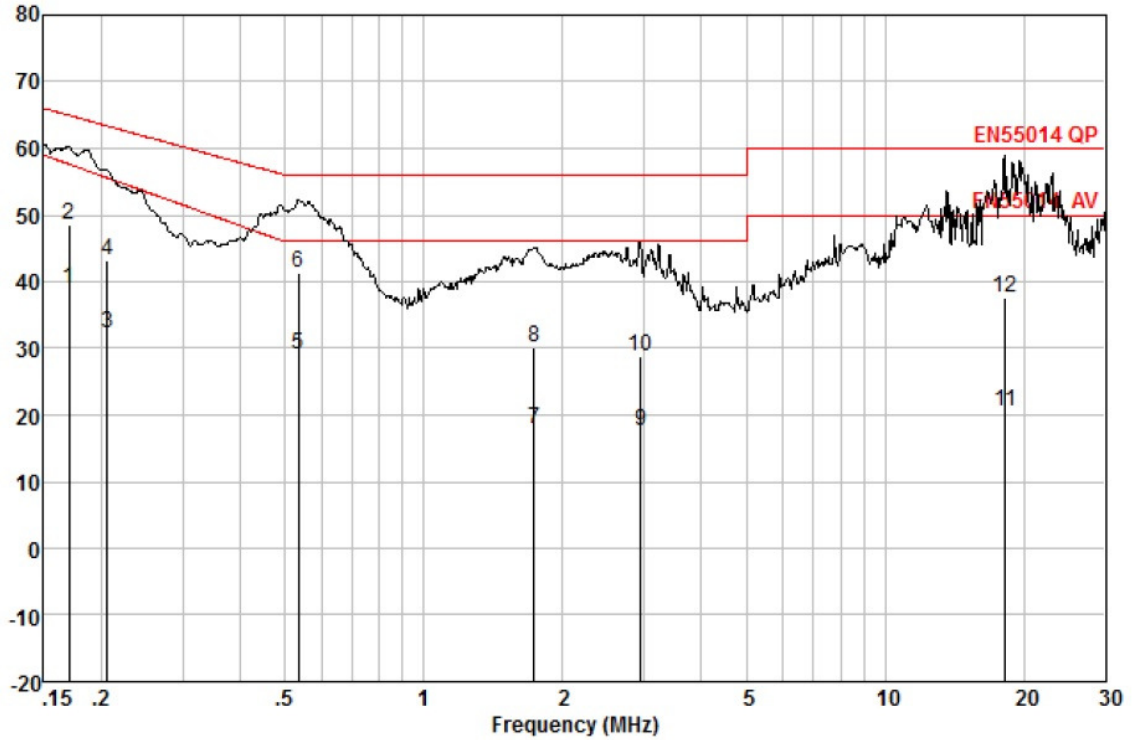
Live Line

Level (dBμV)



Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
0.180	35.25	0.21	0.00	35.46	57.05	-21.59	Average
0.180	45.19	0.21	0.00	45.40	64.50	-19.10	QP
0.469	26.85	0.21	0.01	27.07	46.70	-19.63	Average
0.469	39.58	0.21	0.01	39.80	56.54	-16.74	QP
1.654	16.90	0.23	0.03	17.16	46.00	-28.84	Average
1.654	29.05	0.23	0.03	29.31	56.00	-26.69	QP
3.123	16.59	0.27	0.08	16.94	46.00	-29.06	Average
3.123	27.08	0.27	0.08	27.43	56.00	-28.57	QP
12.988	13.37	0.89	0.30	14.56	50.00	-35.44	Average
12.988	28.72	0.89	0.30	29.91	60.00	-30.09	QP
18.232	15.74	0.91	0.30	16.95	50.00	-33.05	Average
18.232	28.74	0.91	0.30	29.95	60.00	-30.05	QP

Neutral Line
 Level (dBuV)



Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
0.170	38.34	0.62	0.00	38.96	57.63	-18.67	Average
0.170	47.94	0.62	0.00	48.56	64.94	-16.38	QP
0.206	31.56	0.62	0.00	32.18	55.57	-23.39	Average
0.206	42.65	0.62	0.00	43.27	63.36	-20.09	QP
0.535	28.51	0.66	0.01	29.18	46.00	-16.82	Average
0.535	40.77	0.66	0.01	41.44	56.00	-14.56	QP
1.734	17.09	0.71	0.04	17.84	46.00	-28.16	Average
1.734	29.51	0.71	0.04	30.26	56.00	-25.74	QP
2.946	16.93	0.72	0.08	17.73	46.00	-28.27	Average
2.946	28.02	0.72	0.08	28.82	56.00	-27.18	QP
18.232	19.28	0.95	0.30	20.53	50.00	-29.47	Average
18.232	36.25	0.95	0.30	37.50	60.00	-22.50	QP

6.2 Disturbance Power

Test Requirement:	EN 55014-1:2006 +A1:2009+A2:2011
Test Method:	CISPR 16-2-2
Frequency Range:	30MHz to 300MHz
Limit:	
30MHz- 300MHz	45dB(pw)-55dB(pw) quasi-peak, 35dB(pw)-45dB(pw) average
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30MHz to 300MHz

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21 °C Humidity: 53 % RH Atmospheric Pressure: 1015 mbar

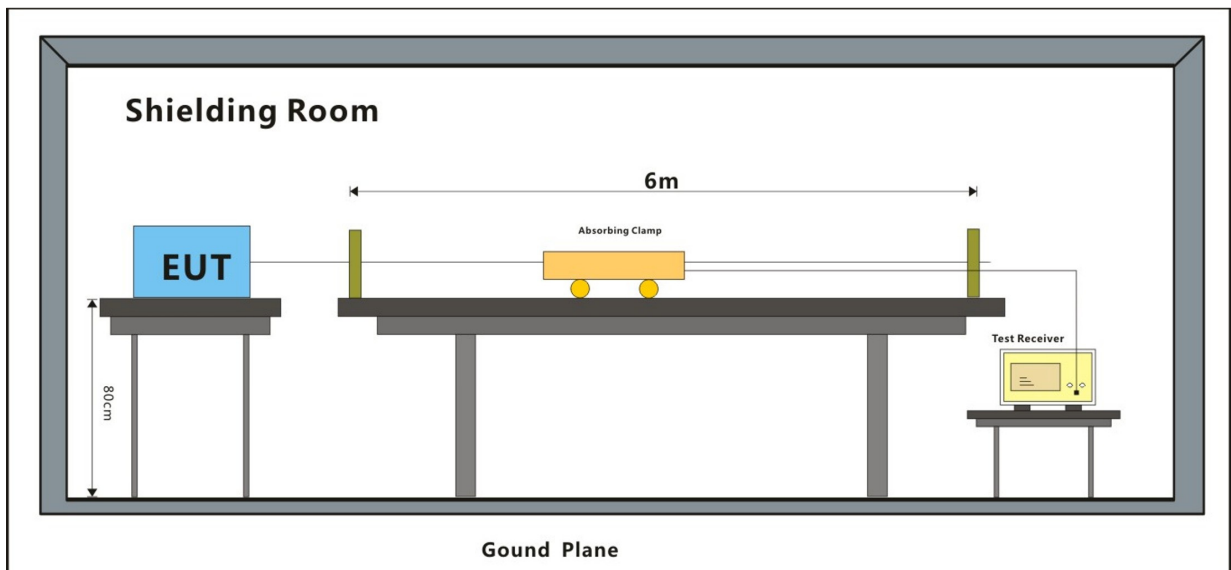
Pretest these modes to find the worst case:

- a: Test the EUT in pulse mode.
- b: Test the EUT in dehumidifying mode at maximum speed.
- c: Test the EUT in dehumidifying mode at minimum speed.

The worst case for final test:

- a: Test the EUT in pulse mode.

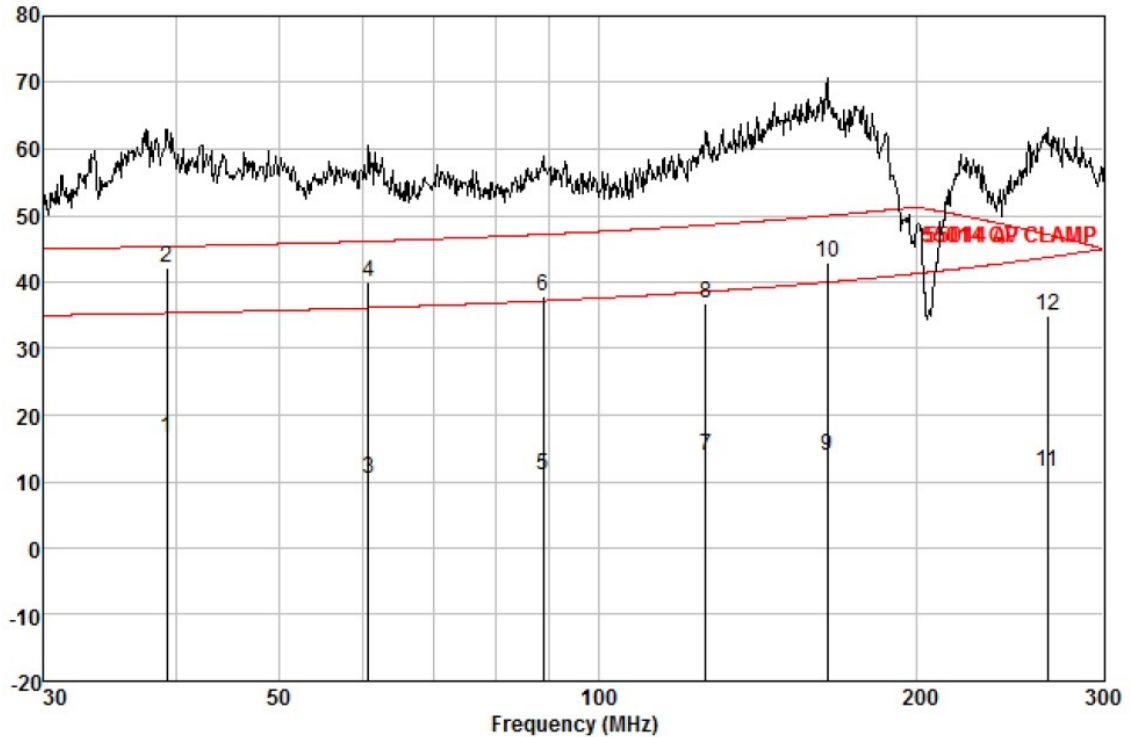
6.2.2 Test Setup Diagram



6.2.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

Level (dBpW)



Frequency MHz	Read Level dBuV	Cable Loss dB	Clamp Factor dBpW/dBuV	Measured Level dBpW	Limit Line dBpW	Over limit dB	Remark
39.185	12.47	1.34	2.68	16.49	35.34	-18.85	Average
39.185	38.11	1.34	2.68	42.13	45.34	-3.21	QP
60.691	9.08	1.76	-0.42	10.42	36.14	-25.72	Average
60.691	38.66	1.76	-0.42	40.00	46.14	-6.14	QP
88.740	8.92	2.17	-0.09	11.00	37.18	-26.18	Average
88.740	35.76	2.17	-0.09	37.84	47.18	-9.34	QP
126.218	9.93	2.67	1.22	13.82	38.56	-24.74	Average
126.218	32.89	2.67	1.22	36.78	48.57	-11.79	QP
164.483	11.63	3.12	-0.99	13.76	39.98	-26.22	Average
164.483	40.82	3.12	-0.99	42.95	49.98	-7.03	QP
265.535	7.02	4.12	0.23	11.37	43.72	-32.35	Average
265.535	30.51	4.12	0.23	34.86	47.17	-12.31	QP

6.3 Discontinuous Disturbance (150kHz-30MHz)

Test Requirement: EN 55014-1:2006 +A1:2009+A2:2011

Test Method: EN 55014-1:2006 +A1:2009+A2:2011

Frequency Range: 150kHz to 30MHz

Remark:

Not applicable. The EUT belongs to exceptions from the click definition in clause 4.2.3.1,

“4.2.3.1 Individual switching operations

The disturbance from individual switching operations, caused directly or indirectly, manually or by similar activities on a switch or a control which is included in an appliance or otherwise to be used for:

a) the purpose of mains connection or disconnection only;

b) the purpose of programme selection only;

c) the control of energy or speed by switching between a limited number of fixed positions;

d) the changing of the manual setting of a continuously adjustable control such as a variable speed device for water extraction or electronic thermostats, is to be disregarded for the purpose of testing the appliance for compliance with the limits of radio disturbance set out in this standard.

Examples of switches included in this subclause are the on/off switches for apparatus (including foot activated), for instance the switch for an electric typewriter, manual switches for heat and air flow control in fan heaters and hair dryers, as well as the indirectly operated switch in a cupboard, wardrobe or refrigerator, and sensor-operated switches, etc. Switches which usually will be repeatedly operated are not included in this subclause, e.g. for sewing machines, calculating machines, soldering equipment, etc. (see 7.2.3. and 7.3.2.4.c).

Also the disturbance caused by the operation of any switching device or control which is included in an appliance for the purpose of mains disconnection for safety only, is to be disregarded for the purpose of testing the appliance for compliance with the limits of radio disturbance as described in this standard.”

6.4 Harmonic Current Emission

Test Requirement: EN 61000-3-2:2014

Test Method: EN 61000-3-2:2014

Frequency Range: 100Hz to 2kHz

Remark:

Since the EUT was belong to exception of clause 7 and Annex C, according to EN 61000-3-2 figure 1, it was deemed to conform to the requirements of this standard without further testing.

“7 Harmonic current limits

The procedure for applying the limits and assessing the results is shown in Figure 1.

For the following categories of equipment, limits are not specified in this standard:

NOTE 1 Limits may be defined in a future amendment or revision of the standard.

– equipment with a rated power of 75 W or less, other than lighting equipment.

NOTE 2 This value may be reduced from 75 W to 50 W in the future, subject to approval by National Committees at that time.

– professional equipment with a total rated power greater than 1 kW.

– symmetrically controlled heating elements with a rated power less than or equal to 200 W.

– independent dimmers for incandescent lamps with a rated power less than or equal to 1 kW.

NOTE 3 See also C.5.3.”

and

No limit applies for all LED lighting equipments with active input power ≤ 25 W except Discharge lighting equipment (refer to 7.3 b))

Kitchen machines as listed in the scope of IEC 60335-2-14 are deemed to conform to the harmonic current limits of this standard without further testing.

Please read clause 7 & Annex C of this standard for reference.

6.5 Voltage Fluctuations and Flicker

Test Requirement: EN 61000-3-3:2013

Test Method: EN 61000-3-3:2013

6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 55 % RH Atmospheric Pressure: 1010 mbar

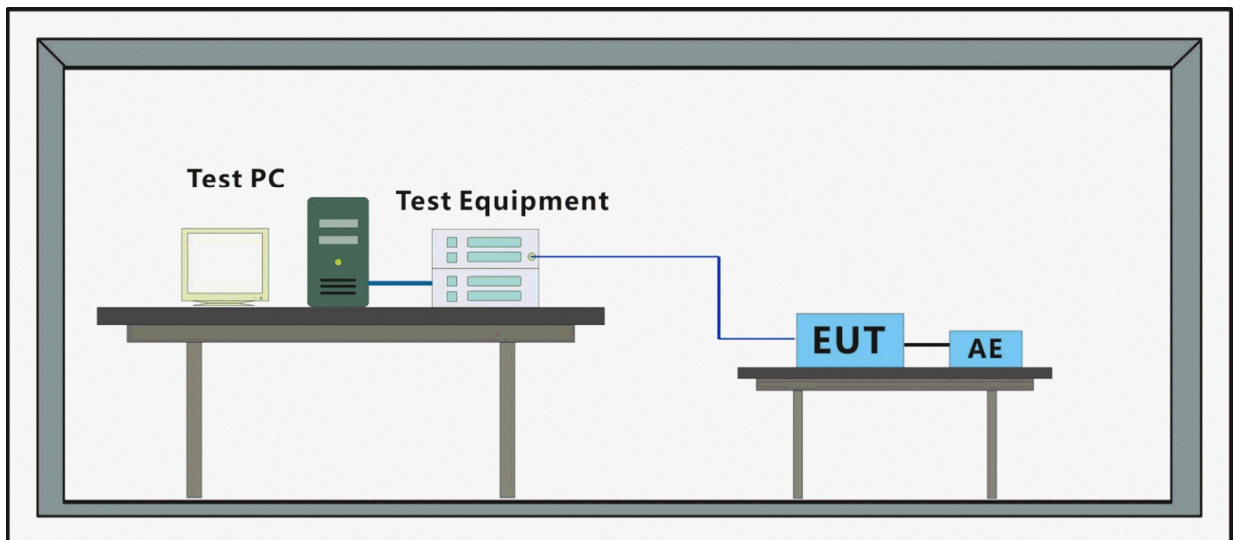
Pretest these modes to find the worst case:

- a: Test the EUT in pulse mode.
- b: Test the EUT in dehumidifying mode at maximum speed.
- c: Test the EUT in dehumidifying mode at minimum speed.

The worst case for final test:

- a: Test the EUT in pulse mode.

6.5.2 Test Setup Diagram



6.5.3 Measurement Data

Flicker Test Summary per EN 61000-3-3 (Run time)

Test Result: Pass

Status: Test Aborted

Parameter values recorded during the test:

Vrms at the end of test (Volt):	229.99		
Highest dt (%):	0.67	Test limit (%):	N/A N/A
T-max (mS):	0.00	Test limit (mS):	500.0 Pass
Highest dc (%):	0.69	Test limit (%):	3.30 Pass
Average dmax (%):	0.78	Test limit (%):	7.00 Pass

Test Number	Dmax	
1	-0.648	
2	0.744	
3	0.585	
4	0.769	
5	-0.984	
6	-1.027	Highest dmax (Disregarded)
7	0.963	
8	0.749	
9	0.854	
10	-0.694	
11	0.882	
12	-0.912	
13	0.964	
14	0.758	
15	0.590	
16	0.787	
17	0.636	
18	-0.527	
19	0.425	
20	-0.328	Lowest dmax (Disregarded)
21	0.524	
22	0.750	
23	0.865	
24	-0.968	
Average of 22 Dmax		0.754
Lowest Dmax		-0.328
Highest Dmax		-1.027

7 Immunity Test Results

Test Requirement: EN 55014-2:2015

Test Method: N/A: See Remark Below

There is no need for immunity tests to be performed on this product in accordance with clause 7.2.1 of EN 55014-2 which states:

“Category I apparatus is deemed to fulfil the relevant immunity requirement without testing.”

For further details, please refer to clause 4.1 of EN 55014-2 which states:

“Category I: apparatus containing no electronic control circuitry.

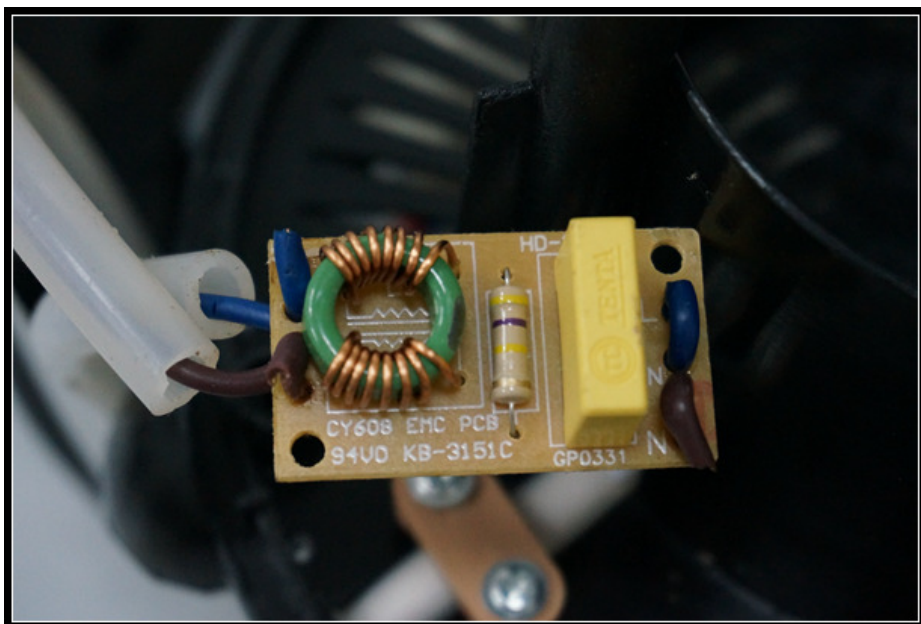
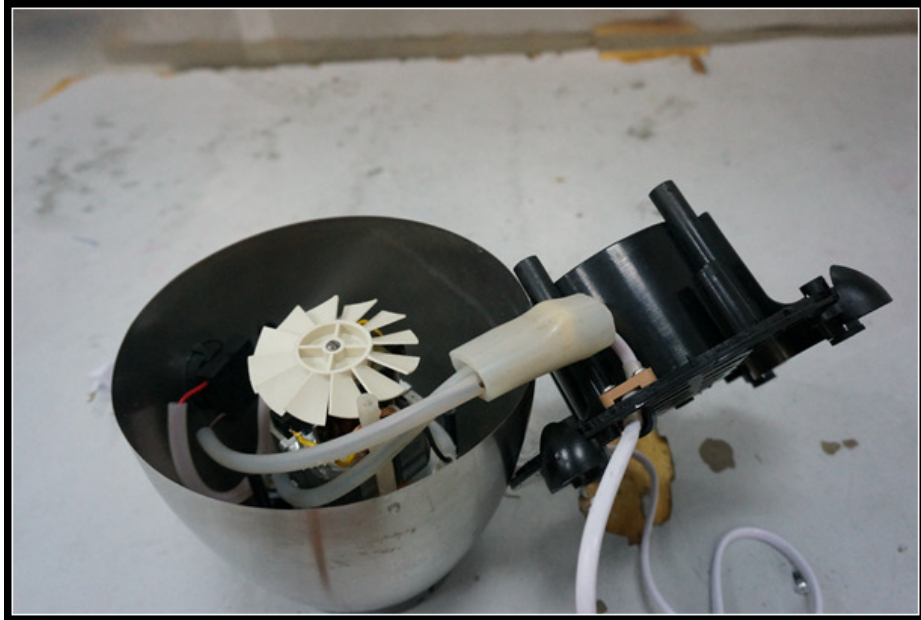
Example: motor operated appliances, lighting toys, track sets without electronic control units, tools, heating appliances UV and IR radiators and apparatus containing components such as electromechanical switches and thermostats.

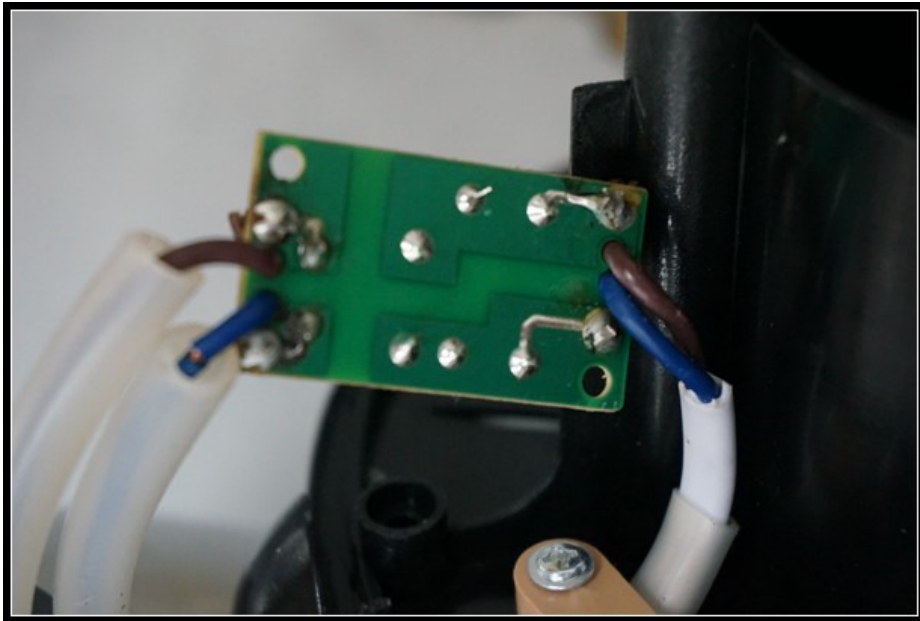
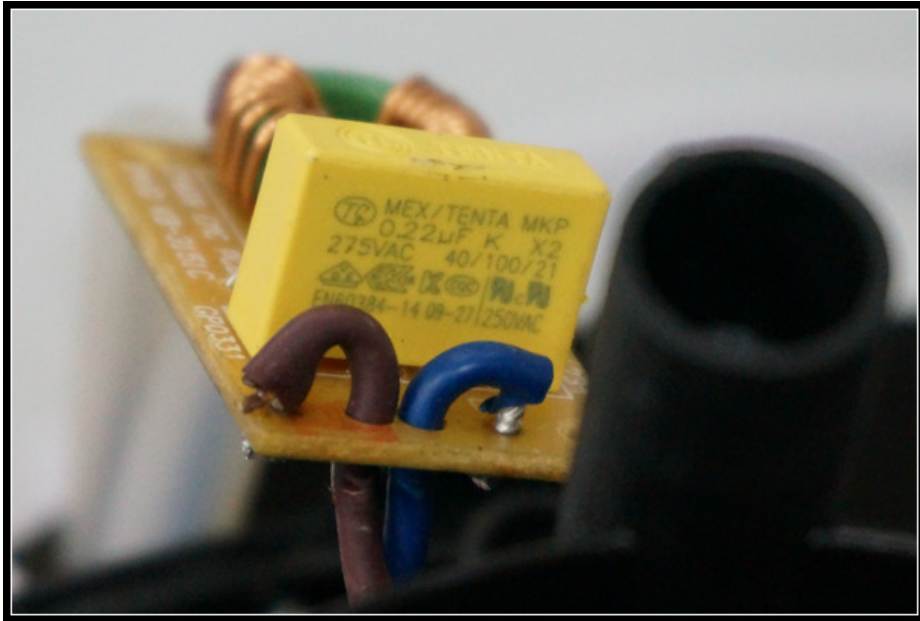
Electric circuits consisting of passive components (such as radio interference suppression capacitors or inductors, mains transformers and mains frequency rectifiers) are not considered to be electronic control circuitry.”

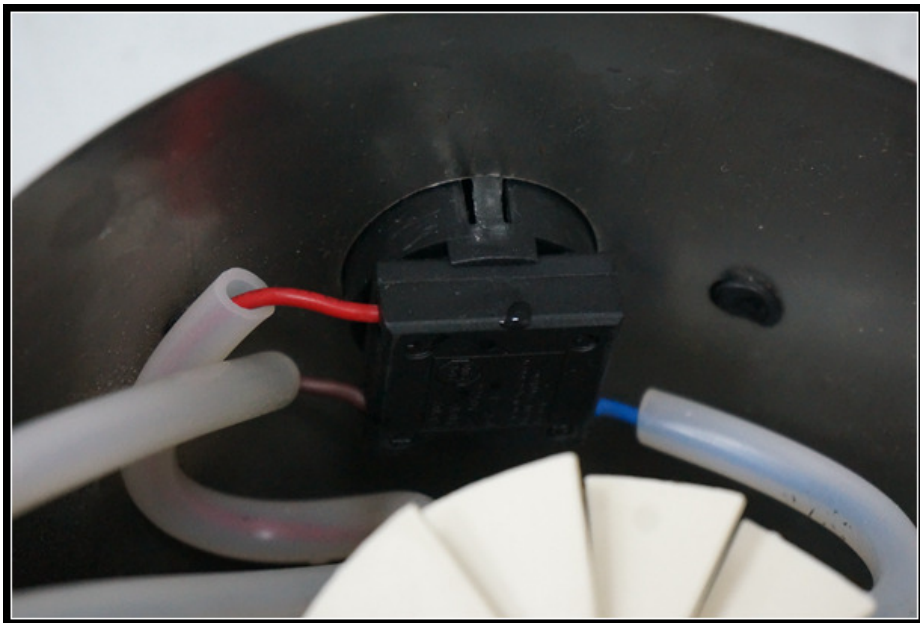
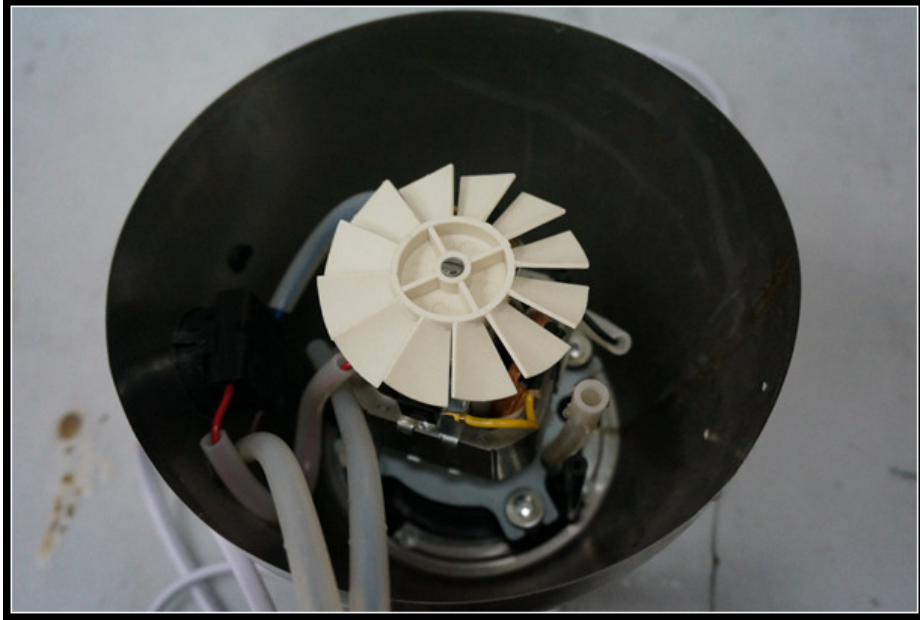
8 Photographs

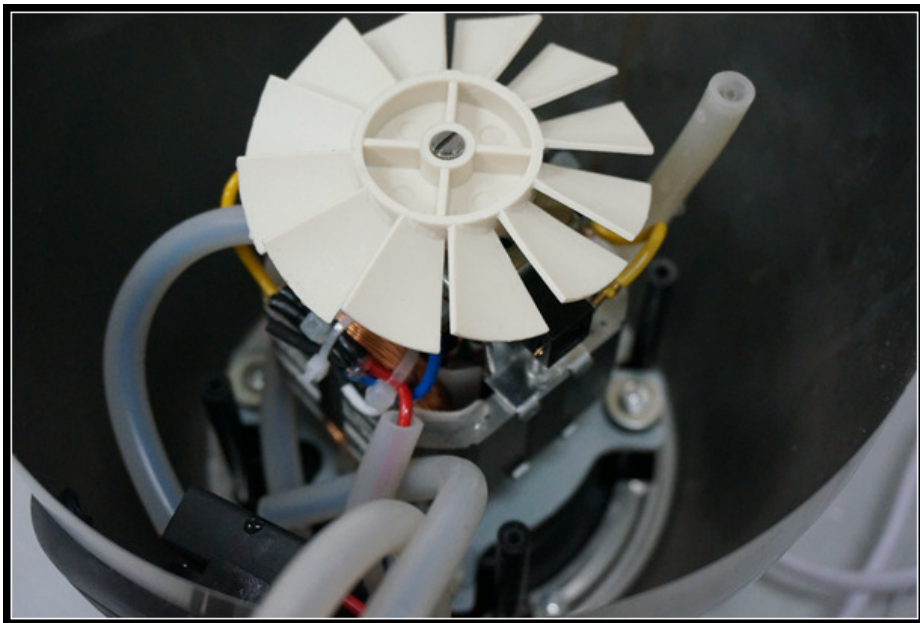
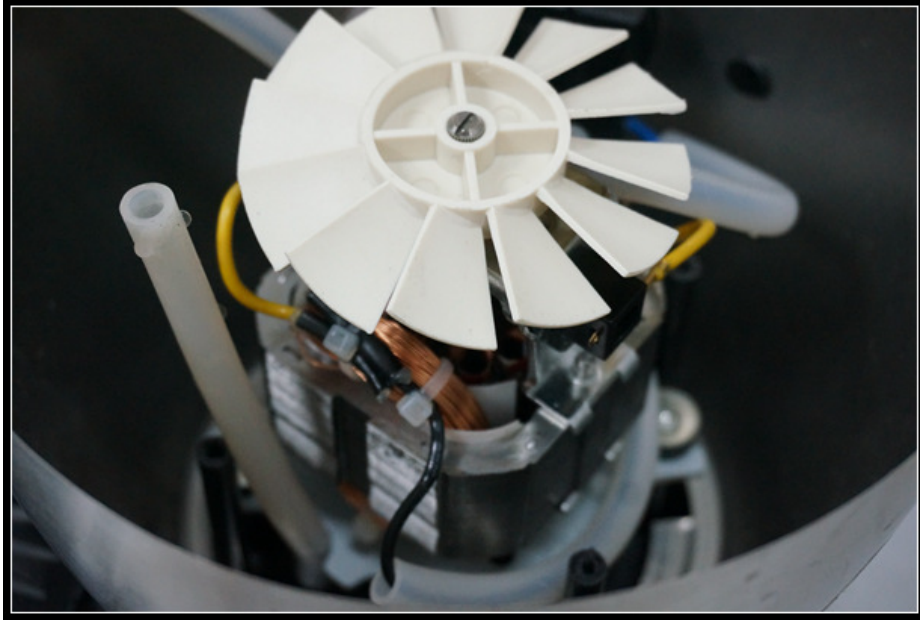
8.1 EUT Constructional Details











--End of Report--